

Wisconsin eHealthcare Quality and Patient Safety Board

Information Exchange Workgroup Working Session—
Evaluating HIE/HIT project options

August 17, 2006

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GE Healthcare

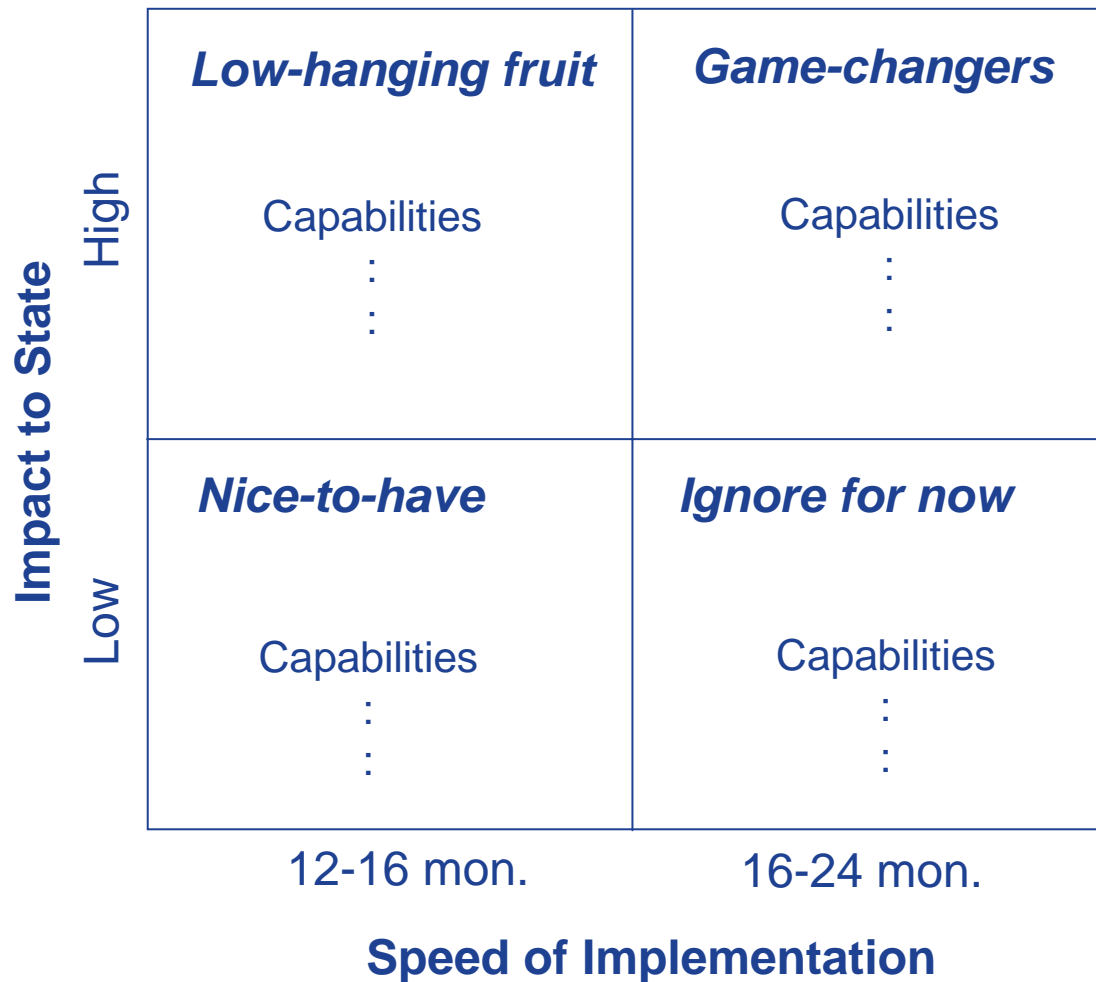


Topics

- What goes in the boxes?
- Workgroup Inputs
- Selection criteria: $Q \times A = E$
- Pugh Matrix tool
- Identifying criteria and concepts
- Interdependencies between HIT and HIE
- Linkage to Medical Trading areas
- Homework assignment



What goes in the boxes?



Objectives

- Many small / short-term measurable wins
- Incremental & pragmatic steps
- Recognize best practices
- + Value per \$ expended
- Sustainability
- Build on State's strengths



Creating lasting change...

$$Q \times A = E$$

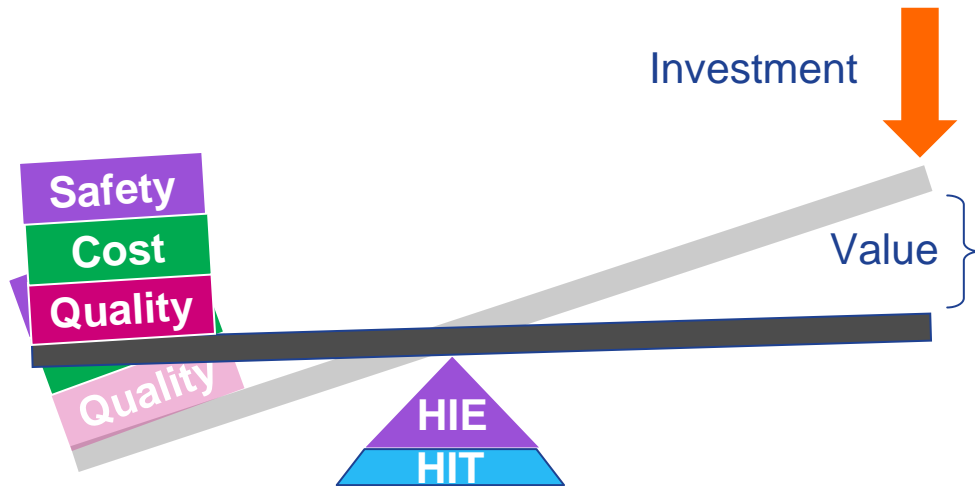


- Consumer trust
- Clinician buy-in
- Involvement
- ...

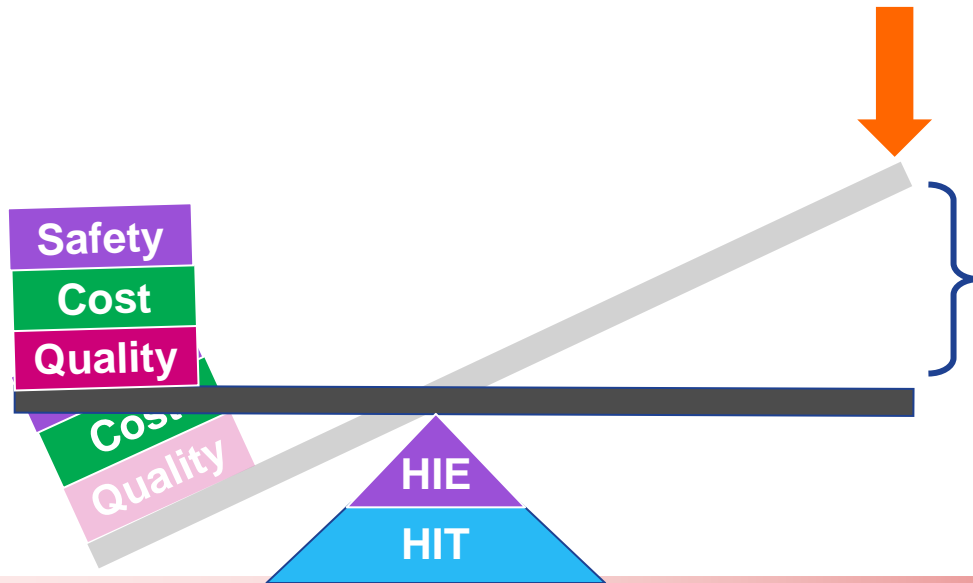
** Quality of solution times its Acceptance = Effectiveness*



Why prioritize HIE over HIT?



- Initial infrastructure benefits with current HIT installed-base
- There is a relative limit to HIE infrastructure investment...



- Given the same HIE infrastructure as above, more value obtained with more HIT sockets....
- “The network effect”



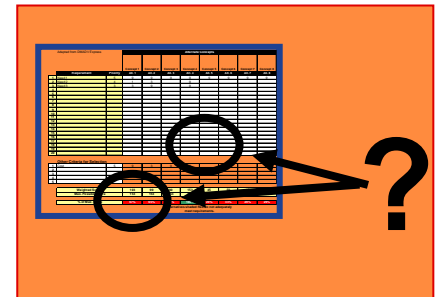
Get inputs



- Patient Care
- Consumer Interests
- Financing
- Governance

[illegible]

Evaluate



Pugh matrix tool

Pugh Matrix

Adapted from DMADV Express

			Alternate Concepts					
			Concept 1	Concept 2	Concept 3	Concept 4	Concept 5	Concept 6
	Requirement	Priority	Alt. 1	Alt. 2	Alt. 3	Alt. 4	Alt. 5	Alt. 6
1	Need 1	5	9	9	9	9	9	9
2	Need 2	4	1	3		9		
3	Need 3	3	3	9		9		
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Other Criteria for Selection

1	Cost	5	9	3	9	9		1
2								
3								
4								
5								

Weighted Scores			103	99	90	153	45	50
Max. Possible Score			153	153	153	153	153	153

% of Max. Score	67%	65%	59%	100%	29%	33%
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Alternatives shaded Red do not adequately

- Compare different concepts
- Create strong alternative concepts from weaker concepts
- Arrive at an optimum concept that may be a hybrid or variant of the best of other concepts

What is the Pugh Matrix

The Pugh matrix is the tool used to facilitate a disciplined, team-based process for concept selection and generation. Several concepts are evaluated according to their strengths and weaknesses against a reference concept called the datum. The datum is the best current concept at each iteration of the matrix.

Steps

1. Establish selection criteria
2. Setup the matrix
3. Clarify concepts
4. Choose the datum concept
5. Compare the concepts
6. Tally the results
7. Evaluate the ratings
8. Select a new datum if necessary and repeat Steps 5-7



Homework: Complete matrix comparing options against the datum

Pugh Matrix

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